FRINOVSKAYA, I.V.

Changes in the blood coagulation system in hemorrhagic thrombooythemia. Probl. gemat. i perel. krowi 8 no.62 (MIRA 1724)

1. Iz gematologicheskoy kliniki (zar. - prof. M.S. Dul'tsin) TSentral'nogo ordena Lemina instituta gematologii i perelivaniya krovi (direktor - dotsent A.Ys. Kiseler) Ministerstva zdravookhraneniya SSSR.

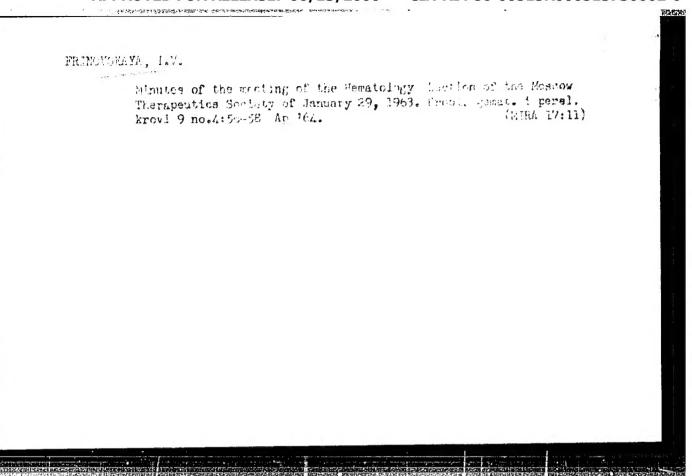
FRINOVSKAYA, I.V.

Minutes of the meeting of the Hematology Section of the Moscow Therapeutics Society of October 30, 1962. Probl. gemat. 1 perel. krovi 8 no.11:62 N '63.

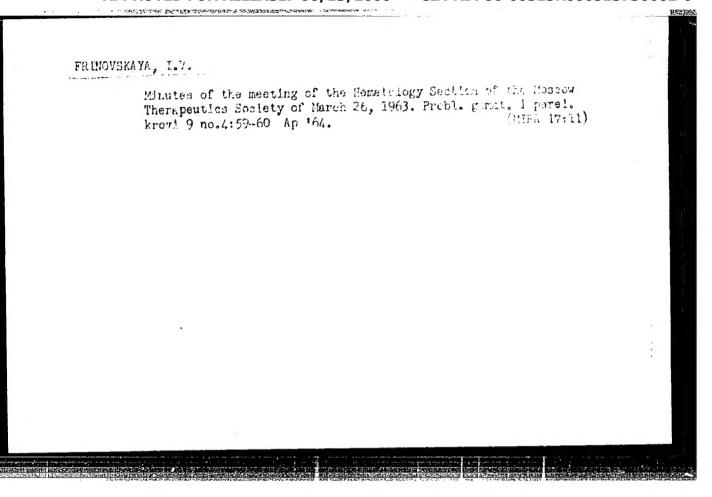
Minutes of the Hematology Section of the Moscow Therapeutics Society of November 27, 1962. Ibid.:63

Minutes of the meeting of the Hematology Section of the Moscow Therapeutics Society of December 25, 1962. Itid.:64 (MIRA 17:12)

CIA-RDP86-00513R000513730002-0



CIA-RDP86-00513R000513730002-0



THE RESTRICT SECOND SPREED FOR THE SPECIAL PROPERTY OF THE PRO

REYSHAKHRIT, L.S.; BEZHUTOVA, T.P.; FRIMOVSKAYA, M.G.

Influence of aromatic amines on the discharge of cobalt and cadmium ions on a dropping mercury electrode. Vest. LGU 19 no.22: 132-135 164 (MIMA 18:1)

ARBUZOV, B.A.; FRINOVSKAYA, V.A.

Dichloride of d- \triangle 3-carene. Zhur. Obshchey Khim. 22, 1444-45 '52. (CA 47 no.13:6379 '53) (MLRL 5:8)

1. Kazan, Sate Med. Inst.

ARBUZOV, B.A., akademik; FRINOVSKAYA, V.A.

Oxides of some d-pinene derivatives and their isomerization.

Dokl. AN SSSR 112 no.3:427-429 Ja '57. (MLRA 10:4)

Nauchno-issledovatel'skiy khimicheskiy institut im.
 A.M. Butlerova pri Kazanskom gosudarstvennom universitete im.
 V.I. Ul'yanova-Lenina.
 (Pinene) (Isomerization)

FRINOVSKAYA, V. A., Cand Chem Sci -- (diss) "Preparation and study of isomeric transformations of oxides of certain derivatives of d &-pinene." Kazan', 1958. 11 pp (Sci Res Chem Inst im A. M. Butlerov; Kazan' State Med Inst), 120 copies (KL, 18-58, 96)

d= alpha

-23-

79-28-4-59/60

'AUTHORS:

Abramov, V. S., Vilichinskaya, A. R., Frinovskaya, V. A.

TITLE:

In Memoriam Andrey Ivanovich Lun'yak (Pamyati Andreya Ivano-

vicha Lun'yaka)

PERIODICAL:

Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 4, pp. 1118-1119 (USSE)

ABSTRACT:

On October, 15th, died after long serious disease the 76-year-old Professor for Chemistry at the Medical Institute Kazan', Andrey Ivanovich Lun'yak. He was a pupil of A. M. Zaytsev. Andrey Ivanovich Lun'yak was born on December 17th, 1881, in Petersburg. After finishing high school in Odessa he entered the Military Medical Institute in Petersburg. Then he came as army surgeon to Kazan'. Already 2 years later he left the army and devoted his life to chemistry. He came as laboratory assistant to the Laboratory for Organic Chemistry at the Kazan' University which stood under the leadership of A. M. Zayetsev. Here he passed - thanks to mediation of the university - his pharmacist examination with special permission. In 1908 A. I. Lun'yak was sent to Berlin for 2 years where he worked in the laboratory of E. Fischer. Then he was appointed private docent of the Kazan' University, short time

Card 1/3

79-28-4-59/60

In Memoriam Andrey Ivanovich Lun'yak

afterwards assistant professor for organic chemistry and agricultural analysis in Alexandriya, where he finished his dissertation. From 1910 till 1924 A. I. Lun'yak was professor for physiological chemistry at the new-opened university of Perm. He was simultaneously dean of the faculty for physics and mathematics and of the medical faculty and later representative of the rector of the university. In 1924 he was appointed professor for the chair for technical chemistry of the Kazani University, two years later rector of the university. From 1930 on Lun'yak was professor for organic chemistry of the technological faculty of the Chemical--Technological Institute of Kazın'. 6 years later he was appointed leader of the chair for organic chemistry at the Medical Institute of Kazan, where he held lectures for many years. In 1952 A. I. Lun'yak had to retire because of his bad health, was, however, always very interested in the life at the Institute. Andrey Ivanovich Lun'yak was a very good organizer and his energy was inexhaustible. He also took part actively in the development of the chemical industry of the Tatar Republic. Party and government estimated highly his services and he was awarded the Lenin Order. His pupils and assistants will always remember him.

Card 2/3

CIA-RDP86-00513R000513730002-0

79-28-4-59/60

In Memoriam Andrey Ivanovich Lun'yak

 Λ list of the scientific works of the deceased is given. There is 1 figure.

Card 3/3

VIL'CHINSKAYA, A.R.; PRINOVSKAYA, V.A.

Synthesis of esters of phosphonic, monothio-, and dithiophosphoric acids containing the myrtenyl radical. Zhur.ob.khim. 30 no.8: 2581-2585 Ag '60. (MIRA 13:8)

1. Kazanskiy gosudarstvennyy universitet i Kasanskiy gosudarstvennyy meditsinskiy institut.

(Phosphonic acid) (Phosphoric acid)

FRINOVSKIY, A.A.

For the titel of Factory of Communist Labor. Put' i put.khoz. 5 no.6:21-22 Je '61. (MIRA 14:8)

1. Normirovshchik shpalopropitochnogo zavoda, st. Rava-Russkaya, L'vovskoy dorogi. (Railroads--Employees)

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000513730002-0

FRINOVSKIY, M., inzhener-mayor

Information on radiation reconnaissance must go directly to the battalion. Voen. vest. 42 no.6:36 Je '62. (MIRA 15:6) (Radiation—Measurement)

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000513730002-0

FRINOVSKIY, V.S.

Conduction anesthesia in gynecologic surgery. Akush.gin. no.2: 3-6 Mr-Ap 150. (CIML 19:2)

1. Of the Institute of Obstetrics and Gunecology (Director -- L.G. Stepanov) of the Ministry of Public Health USSR.

FRINOVSKIY, V. S.

Certain data on diagnosis of ovarian cancer. Akush. gin.
no.3:11-15 May-June 1951. (CIML 21:1)

1. Of the Institute of Obstatrics and Gynacology (Director --L. G. Stepanov) of the Ministry of Public Health USSR.

FRINOVSKIY, V.S.

Conduction (regional) anesthesia in vaginal surgery. Akush. i gin. no.5:59-63 8-0 154. (MIRA 7:12)

l. Iz insituta akusheratva i ginekologii (dir. L.G.Stepanov, nauchnyy rukovoditel[†] prof. P.A.Beloshapko) Ministeratva zdravo-okhraneniya SSSR.

(VAGINA, surgery, anesth., regional) (ANESTHESIA, REGIONAL, in vaginal surg.)

CIA-RDP86-00513R000513730002-0

FRINOVSKIY, Vyachslav Sergeyevich

FRINOVSKIY, Vyachslav Sergeyevich (Sci Res Inst of Obstetrics and Gynecology of the Min of Health USSR), Academic degree of Doctor of Medical Sciences, based on his defense, 24 October 1955, in the Council of the 2nd Moscow State Med Inst imeni Stalin, of his dissertation entitled: "Conductor anesthesia (own methods) in gynecological operations and its practical application."

For the Academic Degree of Doctor of/Sciences

Byulleten' Ministerstva Vysshego Obrazovaniya SSSR, List No. 7, 31 March 1956 Decision of Higher Certification Commission Concerning Academic Degrees and Titles.

JPRS 512

FRINOVSKIY, V.S.,; SAVITSKAYA, L.K.

Surgical treatment of vesicovaginal fistulas. Akush. i gin. 32 no.1:46-51 Ja-F 156 (MLRA 9:6)

1. Iz Nauchno-issledovatelskogo instituta akusherstva i ginekologii (dir.L.G. Stepanov) Ministerstva zdravookhraneniya SSSR.
(FISTULA, VESICOVAGINAL, surg.)

FRINOVSKIY, V.S., prof., doktor med.nauk

Modification of panhysterectomy in malignant neoplasms of the adnexa uteri. Akush. i gin. 34 no.5:99-103 S-0 '58 (MIRA 11:10)

l. Iz Nauchno-issledovateliskogo instituta akusherstva i ginekologii (dir. dotsent L.G. Stepanov) Ministerstva zdravookhraneniya RSFSR.

(HYSTERECTOMY,

panhysteroctomy, modified technic, in cancer of uterus & adnexae (Rus))

FRINOVSKIY V.S., prof., doktor med.nauk

Diagnosis and surgical treatment of endometricsis of the uterus (adenomyosis). Akush.i gin. 35 no.5:43-46 S-0 '59. (MIRA 13:2)

1. Iz nauchno-issledovatel'skogo instituta akusherstva i ginekologii (direktor - dotsent L.G. Stepanov) Ministerstva zdravookhraneniya RSFSR.

(ENDOMETRIOSIS)

CIA-RDP86-00513R000513730002-0

PRINOVSKIY, V.S. . 7 Combined anesthesia in gynecological operations. Akush.i gin. 36 no.4:33-37 Jl-Ag 160. (MIRA CENITOURINARY ORGANS—SURGERY) (LOCAL ANESTHESIA)

CIA-RDP86-00513R000513730002-0

FRINOVSKIY, V.S. (MOSCOW, USSR)

Modifkation der erwieterten Radikaloperation des Collumcarcinoms unter Erhaltung der Overien bei jungen Frauen.

Report submitted for the 3rd World Congress, Intl Federation on Gyneology and Obstetrics, Vienna, Austria, 3-9 Sep 1961.

GOFMAN, G.Ye., prof.; ZHELEZNOV, B.I., kand. med. nauk; KLENITSKIY, Ya.S., prof.; LEL'CHUK, P.Ya., prof.; MARKINA, V.P., dots.; NOVIKOVA, L.A., prof.; PETROVA, Ye.N., prof.; POKROVSKIY, V.A., prof.; FRINOVSKIY, V.S., prof.; PERSIANINOV, L.S., prof., otv. red.; IL'IN, I.V., red.; LYUDKOVSKAYA, N.I., tekhn. red.

[Multivolume manual on obstetrics and gynecology] Mnogotomnoe rukovodstvo po akusherstvu i ginekologii. Moskva, Medgiz. Vol.5.[Tumors of female genitalia] Opukholi zhenskikh polovykh organov. 1962. 314 p. (MIRA 16:8)

1. Chlen-korrespondent AMN SSSR (for Novikova, Persianinov). (GENERATIVE ORGANS, FEMALE-TUMORS)

CIA-RDP86-00513R000513730002-0

FRINOVSKIY, Vyacheslav Sergeyevich; MAZUHOVA, V.E., red.; EUKOVSKAYA,

N.A., tekhn. red.

[Regional anesthesia in gynecological surgery] Regionarnaia
anesteziia pri ginokologicheskikh operatsiiakh. Moskva, Medgiz
1963. 108 p.

(MIRA 17:2)

FILIPPOV, D.P., inzhener (Moskva); FRINSHTEYN, I.F., inzhener (Moskva)

Laying a 900 mm diameter steel conduit. Stroi.pred.neft.prom. 1 no.6:
21-22 Ag '56. (Petroleum--Pipelines) (MIRA 9:9)

FRINT, Tibor, dr.

Present status of the origin of the human voice. Fulorrgegegyogyaszat. 9 no. 2:84-90 Je 163.

l. Az Orvostovabbkepzo Intezet Ful-, orr-, gegegyogyaszati Tanszekenek (tanszekvezet Surjan Laszlo dr. egyetemi tanar) kozlemenye.

(VOCAL CORDS) (VOICE)

FRINT, Tibor, dr.

Causes and clinical aspects of functional voice disorders. Fulorrgegegyogyaszat 10 no.2172-78 36164

1. Az Orvostovabbkepzo Intezet Ful-orr-gegegyogyaszati Tanszekenek Budapest (Tanszekvezeto: Surjan, Iaszlo, dr., egyetemi tanar) kozlemenye.

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000513730002-0

FRINTA, Jindrich, MUDr.

Use of adhesive plaster traction in the treatment of fractures of the arm in children. Cesk. pediat. 11 no.5:363-365 May 56.

1. Chirurgicke oddel. krajske detske nemocnice v Brne, prednosta prim. Dr. V. Mazal. (ARM, fractures, in child., adhesive plaster traction (Cz))

(FRACTURES.

arm in child., adhesive plaster traction (Cs))

CIA-RDP86-00513R000513730002-0

FRINTA. Jindrich. MUDr.

Personal system in the evaluation of injuries in children. Acta chir. orthop. traum. cech. 23 no.3:153-156 June 56.

1. Chir. oddeleni Krajske detske nemocnice v Brne, prednosta prim. Dr. V. Mazal.

(WOUNDS AND INJURIES, in inf. & child, evaluation method (Cz))

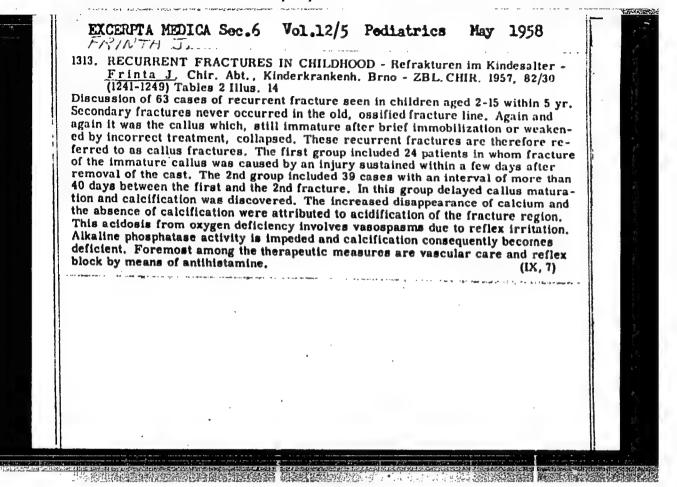
FRINTA, Jindrich

Actinomycosis of the cecum in a 13-year-old girl, Cesk. pediat. 12 no.12: 1090-1091 5 Dec 57.

1. Chirurgicke oddeleni Krajske nemocnice v Brne prednosta prim. Vladimir Mazal.

(ACTINOMYCOSIS, in inf. & child cocum, med. & surg. ther. (Cz))
(CECUM, dis. actinomycosis in child, med. & surg. ther. (Cz))

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000513730002-0



FRIS, Ivan

"Machine: help to think" by Miroslav Valach. Reviewed by Ivan
Fris. Aplikace mat 8 no.3:224 163.

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000513730002-0

FRIS, Martin

"Solved tasks from mathematics, arithmetics and algebra" by K. Hrusa and J. Sedlacek. Reviewed by Martin Fris. Aplikace mat 7 no.4:329-330 162.

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000513730002-0

FRIS, P.

Light polarization conditions as reflected in complex numbers. Coll Cz Chem 30 no.5:1366-1372 My *65.

1. Institut fur makromolekulare Chemie, Tschechoslowakische Akademie der Wissenschaften, Prague. Submitted May 23, 1964.

CIA-RDP86-00513R000513730002-0

FRIS, T.

Yugoslavia (430)

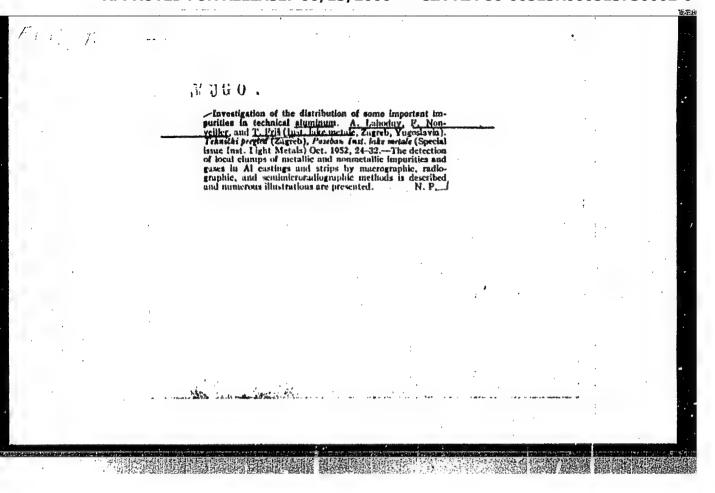
Technology - Periodicals

Aluminum oxide in aluminum and aluminum alloys and its determination. p. 260. TEHNICKI PREGLED. (Croatia. Uprava za unapredenje proizvodnje pri privednom savjetu) Zagreb. (Bimonthly technical journal issued by the Production Improvement Administration of the Economic Council) No. 5, 1951.

East European Accessions List, Library of Congress Vol. 2, No. 6, June 1953. Unclassified

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730002-0



FRIS, Zdenek

Electronic voltage stabilizer. Sdel tech 11 no. 12:
466-467 D'63.

L 1033-66

ACCESSION NR: AP5025945

cz/0039/65/026/005/0273/0278

AUTHOR: Pospisil, Jiri, (Engineer); Fris, Zdenek (Engineer)

TITLE: Measurement of the response of thermionic tubes in the positive grid voltage region

SOURCE: Slaboproudy obzor, v. 26, no. 5, 1965, 273-278

TOPIC TAGS: thermionic tube, electron tube grid, electronic measurement

ABSRACT: [Authors Russian and English summaries, modified]:
The article treats the problems and basic principles of measuring the response of thermionic tubes in the region of positive grid voltage. The method of dc pulses is described in detail and the conditions on the plate and control grid of the tube to be measured are analysed. Orig. art. has: 15 figures, 15 formulas and 1 graph.

ASSOCIATION: Pospisil VAAZ, Brno; Fris TVS, Jizni Horava

SUBMITTED: 09Nov64

ENCL: 00

SUB CODE: EC

NR REF SOVI 1000 Card 1/1 OTHER: 002

JPRS

FRIS-GACESA, T.: MARIN, T.

Colorimetric determination of vanadium in bauxite and red mud, p. 130. TEHNICKI PREGLED. (Centar za naucnu dokumentaciju i produktivnost NR Hrvatske) Zagreb. Vol. 7, No. 4, 1955.

SOURCE:

East European Accessions List, (EEAL) Library of Congress, Vol. 5, No. 8, Aug. 1956.

FRIS-GACESA, Tea, ing.; KORELIC, Olga, ing.

Control and regeneration of baths for the phosphate treatment of aluminum and aluminum alloys. Kem ind 10 no.8:205-209 Ag '61.

1. Institut za lake motale, Zagreb.

The state of the s

FRIS-GACESA, T.: BAH-COP, M.

Volumentric determination of lead in aluminum and aluminum alloys. p. 132. TEHNICKI PREGLED. (Centar za naucnu dokumentackju i produktivnost NR Hrvatske) Zagreb. Vol. 7. No. 4, 1955.

SOURCE:

East European Accessions List, (EEAL) Library of Congress, Vol. 5, No. 8, Aug. 1956.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000513730002-0"

FRIS-GACESA, Tea, ing.; KORELIC, Olga, ing.

Control and regeneration of baths for the phosphate treatment of aluminum and aluminum alloys. Kem ind 10 no. 8:205-209 August 61.

1. Institut za lake metale, Zagreb.

FRISCH, O.R., prof. (Cambridge); ZAMORI, Zoltan [translator]

A new source of energy? Fiz szemle 7 no.2/3:73-74 Ap-Je '57.

1. Harvelli Atomkutato Kozpont (for Frisch).

FRISCH, S.

"Application of windmills in hydraulic engineering." p 151 (Gospodarka Wodna, Vol 13 No 4 Apr 53 Warszawa)

2

SO: Monthly List of East European Accessions, Vol XX No 9 Library of Congress Sept 53 Uncl

FRISCHMANN, Gabor

- Earthing and safety problems of wire telecommunication engineering establishments. Hir techn 11 no.4:121-128
 Ag '60.
 - 1. Magyar Posta.

FRISCHMANH, Gabor

Nomogram for the conversion of noise power into noise voltage and signal/noise ratio. Hir techn 14 nc.4:149-150 Ag '63.

1. Magyar Fosta,

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730002-0

PRISCHMENT, .; SCHAFIR, A.; ROSLA, H.

L new Series of heavy-duty clu-poor circuit precisers for middle voltages. Elektrotochnik 19 no.191278-282 or 464.

1. HH, Borlin (for Frirchmann), M. ESK B. Win E. W. S. Dec don Branch (for Schafer), 3. VEB SCH, Bud Enskau (for Beasel).

FRISCIC, Vinko, Dr.

Infectious food poisoning caused by Salmonella bacteria, Lijec.
vjes. 77 mo.1-2:113-122 Jan-Feb. '55.
(SALMONELLA INFECTIONS,
food poiso, in Croatis (Ser))
(FOOD POISONING, etiol. & pathogen.
Salmonella, in Croatia (Ser))

YUGOSLAVIA

FRISCIC, Dr Vinko, Hygiene Institute (Higijonski Zavod), Bjelovar.

"An Outbreak of Salmonellosis typhi murium Originating in the Heat of a Sick Calf."

Zagreb, <u>Dijecnicki Výconik</u>, Vol 65, No 4, April 1963, pp 403-408.

Abstract: /Tuthor's English summary modified The second outbreak of Salmonellosis typhi murium to be recorded in the Bjelovar region occurred in July 1955 and was traced to the meat of a calf which had probably been infected in its lifetime. Nine families with a total of 39 individuals were exposed, but only 12 persons fell ill. The way in which the meat was prepared was apparently a factor; those affected had eaten the veal stewed with peas and rice. Salmonella infections have become a serious publichealth problem in Yugoslavia in recent years. Two tables, 14 Vestern and Yugoslav references.

16

ACC NR. ALTUUDA44

SOURCE CODE: UR/0367/66/COL/CO3/C625/C635

AUTHORAPPROVED FOR IRELEASE hi06/13/2000 cla-RDP86-00513R000513730002-0 Uglirzh, M.--Uhlir, M.; Frish, I.--Fris, I.

ORG: Joint Institute for Nuclear Research (Ob"yedinennyy institut yadernykh

TITLE: Symmetry groups in classical and quantum mechanics

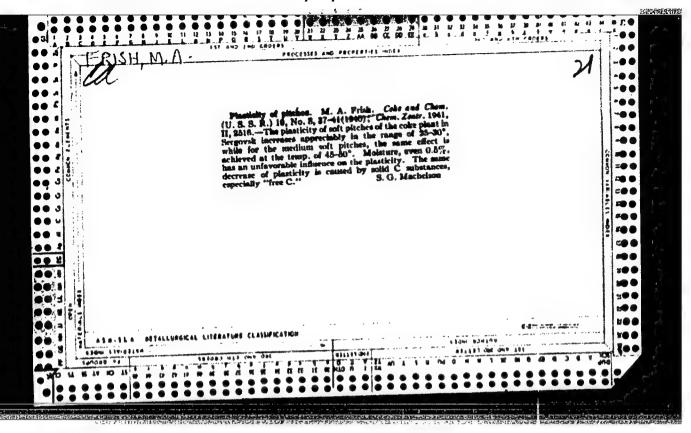
SOURCE: Yadernaya fizika, v. 4, no. 3, 1966, 625-635

TOPIC TAGS: quantum mechanics, quantum theory

ASSTRACT: All potentials having a dynamic symmetry group in a two-dimensional world are found. Classical and quantum motion in these potentials are investigated and it is shown that in all cases the symmetry group is SU(2). The previously known potentials with higher symmetry (Coulomb potential, harmonic oscillator) are obtained as special cases. The authors thank V. Mandrosov for his research of the motion in these potentials. Orig. art. has: 45 formulas. [JPRS: 38,764]

SUB CODE: 20 / SUBM DATE: 22Jan66 / ORIG REF: 005 / OTH REF: 008

Cord 1/1



FRISH, M.A.; SMIRNOVA, A.S.; DORZHIYEVA, M.N.

Effect of vacuum pressing on the properties of graphite electrodes. TSvet. met. 36 no.9:54-58 S '63. (MIRA 16:10)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730002-0

L 52300-65 EWG(J)/EWP(e)/EWT(m)/EPF(c)/EWP(1)/EWG(m)/EPR/T/EWP(b) Pr-4/Ps-4/Peb DIAAP RWH/WW/WH ACCESSION NR: AP5008807 S/0080/65/038/003/0537/0545

AUTHOR: Frish, M. A.; Smirnova, A. S.; Dorzhiyev, M. N.

2

TITLE: Examination of homogeneity in graphite electrodes using a radioactive sul-

SOURCE: Zhurnal prikladnoy khimii, v. 38, no. 3, 1965, 537-545

TOPIC TAGS: graphite electrode, tracer technique, sulfur, radioactive isotope

ABSTRACT: Radioactive isotope S³⁵ was used in a study of optimizing the process of production of graphite electrodes. Use of S³⁵ makes it possible to follow changes in the binder and other components of mold composition during the pressing and roasting operations. Pressing of graphite electrode molds on a piercing hydraulic press gives compact massive blocks. Such operation is most advantageous economically. However, it would be desirable to remove the scraps from the die after each charge. This requirement should be taken into account when considering modernization of the pressing operation. The piercing presses give molds with improved binder concentration within the 2-mm outer layer. Calcining in both open

Card 1/2

"APPROVED FOR RELEASE: 06/13/2000 CI

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L 52300-65

ACCESSION NR: AP5008807

and closed furnaces causes binder redistribution which improves the mechanical strength of the lower mold portions and increases their apparent density. The upper mold portions exhibit the reverse behavior. An excessive binder redistribution is avoided effectively by using the optimal heating rate required for converting binder into semicoke. Orig. art. has: 2 figures and 5 tables.

ASSOCIATION: none

SUBMITTED:

ENCL: 00

SUB CODI:: GC, MP

NO REF SOV: 006

THER: 002

Card 2/2

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730002-0

FRISH, M.A.; SMIRNOVA, A.S.; DORZHIYEV, M.N.

Study of the uniformity of graphitized electrodes using a radioactive sulfur isotope. Zhur. prikl. khim. 38 no.3: 537-545 Mr '65. (MIRA 18:11)

1. Submitted January 5, 1963.

S/133/63/000/001/005/011 A054/A126

AUTHORS:

Dekhanov, N. M., Volkov, V. F., Engineers, Kravchenko, V. A.,

Candidate of Technical Sciences, Frish, M. I., Engineer

TITLE:

Putting into operation a large-capacity covered ferro-alloy smelter

PERIODICAL: Stal', no. 1, 1963, 41 - 44

The first covered smelters for producing manganese silicate grades TEXT: (Симн 14, Симн 17/Simn 14 and Simn 17) were put into operation in the Soviet Union in 1962. First a conventional iron-smelter of 10,000 kw capacity was converted for this purpose. Its crown was made of slanting refractory concrete segments (250 mm thick, 50 tons in weight), clamped into a 600 x 300 mm annular reinforced concrete frame. The concrete used (grade"150") had a refractory capacity of 1,000°C and consisted of 330 kg/m³ liquid glass (density: 1.38), 40 kg/m³ sodium fluo-silicate, 577 kg/m³ chamotte (in the form of finely crushed additive, 50% of which passes through a screen with 4,200 mesh/cm²), 770 kg/m³ small-grained filling material (with a grain size up to 5 mm, 15 - 20% minus 0.14 mm), 600 kg/m3 large-grained filling material (20 - 5 mm fraction). The moisture content of the sodium fluo-silicate and of the small-grained additive should not exceed Card 1/3

S/133/63/000/001/005/011 A054/A126

Putting into operation a large-capacity...

1.5 weight % prior to concreting. These components must be very accurately proportioned (+ 2%). Several types of feeding chutes were tested made of CT.O(St.O) and 1 X 18 H 9 T (1Kh18N9T) grade or cast of 3M-283 (EI-283) steel, finally of grade"150" concrete with a refractory capacity of 1,300°C, containing 350 kg/m. liquid glass (density: 1.38), 2½ kg/m³ sodium flourosilicate, 500 kg/m³ finely crushed magnesite powder and 700 kg/m³ chamotte gravel (10 - 20 mm). The service life of these chutes was about 35 days. At present the chutes are reinforced by stainless steel, 2 mm in diameter. The furnace charging is continuous and fully automatic and takes place by means of bunkers, JIAA-12 (LDA-12) type weight—proportioning devices, including an electromagnetic vibrator and weighing belts. The charging mechanism can be set for any required capacity by regulating the vibrator. Removal and cleaning of the exhaust gases is carried out by a two-stage process, involving a pipe-system and scrubbers. According to NIIOGAZ calculations, the amount of gas in the second stage of cleaning (at a furnace-capacity of 7,600 kw) is 1970 standard m³/hour and contains 18.05% CO2, 60 - 72.7% CO and 0.0 - 2.29% O2. The dust content of the removed gas after the first cleaning 3 stage 1s 5 - 10 gr/standard m³, which decreases to 0.1 - 0.0238 gr/standard m³.

Card 2/3

Putting into operation a large-capacity...

8/133/63/000/001/005/011 A054/A126

The undisturbed operation of the electrodes is ensured by making their fully welded coating of 2 mm thick iron. The diameter of the electrodes is 830 mm, their current density 7 a/cm². The change from the conventional to the new technology adapted for the converted furnaces must take place with great care. The charge must be fed in small batches around the electrodes, the level of the charge must be 600 - 700 mm for 8 hours, the furnace capacity must be kept low, but there should be a maximum load on the electrodes, i.e. they must penetrate deeply, almost as far as the bottom. For this purpose, after the furnace is put into operation, the amount of small coke in the first two charges must be 20 - 30% lower than prescribed. Improper furnace operation can be observed immediately from the drop in CO concentration and increase in the H₂ content of the gases, indicating water leakage from the cooling system, the critical H-content being 12%. If the pressure under the crown exceeds 8 - 10 mm water column, the reserve gas-system starts operating while the other one is being cleaned. There are 3 figures.

Card 3/3

SAPKO, A.I., kand.tekhn.nauk; DOBROV, V.P., kand.tekhn.nauk; DEM'YANETS, L.A., inzh.; DEKHANOV, N.M., inzh.; VOLKOV, V.F., inzh.; KRAVCHENKO, V.A., inzh.; BOYTSOV, L.I., inzh.; SEMENOVICH, B.V., inzh.; PRISH, M.I., inzh.

Investigating power regulators with electromechanical and electrohydraulic drives on ferroalloy refining furnaces. Stal* 22 no.4:321-324 Ap *62. (MIRA 15:5) (Electric furnaces)

SHOLOKHOVA, Ye.D.; FRISH, M.S.

Imminesity of the crepuscular sky in the region of 1 micron. Dekl. AN SSSR 105 no.6:1218-1220 D 155. (MLRA 9:4)

1. Nauchne-issledevatel'skiy fizicheskiy institut Leningradskege gesudarstvennege universiteta imeni A.A. Zhdaneva. (Sky, Coler ef) (Sunset phenemena)

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\$/048/62/026/007/021/030 B125/B104

AUTHORS:

Startsev, C. P., and Frish, M. S.

TITLE:

Measurement of the arc temperature between iron electrodes

from self-reversed lines !

PERIODICAL:

Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya,

v. 26, no. 7, 1962, 927-929

TEXT: The temperature of a d-c arc was determined by measuring the intensity of the self-absorbed spectral lines. According to H. Bartels (Z. Phys., 127, 243 (1950)), the intensity of the self-reversal maxima can be calculated from the intensity of a black body by taking into account the inhomogeneity of the arc. Under these conditions the maximum temperature at the arc axis is given by

 $Y_m(p) = 0.736 + 0.264 p^3$.

 $p = \frac{6}{\pi} \arctan \frac{M_{\rm rp}^2}{V_{1+2M_{\rm rp}^2}}$ 11 SEE 5/048/62/026/007/022/030

S/048/62/026/007/021/030 B125/B104

Measurement of the arc temperature ...

$$T_{m} = \frac{T_{B}}{1 + \frac{kT_{B}}{h_{W}} \ln [MY_{m}(p)]}, \qquad (2).$$

than the ground state. $v_{i,k}$ are the excitation potentials of the upper and lower levels. If the broadening of the lines is caused by electrons, then T_m is slightly smaller than when calculated according to (2): The intensities of the self-reversal maxima were determined from 8 (later from 4) lines of the iron spectrum by means of a spectrograph with plane grating. All lines studied are asymmetrical, (obviously because of the asymmetrical light source), with the maximum on the long-wave side. The width of the entrance slit was taken into account by a correction of 100-120°K. The errors of 20-25% in the determination of the absolute intensities give rise to an error of 5 to 6% in the temperature of the central part of a d-c arc: $T_m = (4560 \pm 200)$ °K at U = 350 v and I = 2.2 a, and $T_m = (5070 \pm 200)$ °K at U = 110 v and I = 5 a. Those values show that the Card 2/3 that fastRacter Correctly, But should read $V_{LV_1}/2V_{h_1}$ the should be V_{Lh}

Measurement of the arc temperature ...

S/048/62/026/007/021/030 B125/B104

present method can be applied to arc-type light sources. There are 1 figure and 2 tables.

Card 3/3

ACCESSION NR: AP4035470

8/0051/64/016/005/0724/0728

'AUTHOR: Frish, M.S.; Startsev, G.P.

TITLE: Results of some studies of the spectroscopic characteristics of a plasmatron

SQURCE: Optika i spektroskopiya, v.16, no.5, 1964, 724-728

TOPIC TAGS: plasmatron, plasma source, light source, spectroscopy source, plasma temperature, plasma jet, argon

ABSTRACT: Although plasma jet (or stream) generators are now fairly extensively used as sources in analytic and scientific spectroscopy, not enough is known regarding their spectral characteristics. The purposes of the present work were to investigate the processes of entry of the anode and cathode material into the discharge, to determine the jet temperature and to elucidate the character of the discharge from the nozzle. The experiments were carried out using a slightly modified version of a plasmatron of the type described by M.Margoshes and B.F.Scribner (Spectrochem. Acta., 14,138,1959) and V.D.Artamonov, E.I.Granovskiy, and P.A.Koka (Trudy* KazIMS, No.2,1960). The design provided for interchange of the nozzles (the nozzle serves as the cathode). The cooling gas, introduced tangentially to the chamber walls, was approximately and the chamber walls, was approximately to the chamber walls, was approximately and the chamber walls, was approximately to the chamber walls.

Card 1/3

ACCESSION NR: AP4035470

gon, containing less than 0.2% impurities. The measurements were carried out for current strengths from 15 to 30 amperes and gas flow rates from 360 to 1600 liters per hour, i.e., in the range of common operating conditions. The electrodes were of copper, carbon or iron. The spectrograms were photographed (and subsequently scanned with a microphotometer) by means of a spectrograph with a plane 600 lines/mm grating and a focal length of 4 meters (reciprocal dispersion about 4.1 R/mm). In addition to spectrograms, there were obtained time-resolved oscillograms (output of a photomultiplier) of the radiation from the plasma jet. Analysis of the spectrograms indicated that there are present in the jet spectrum the lines of argon and the cathode material, but no lines of the anode material. The values of the excitation temperature (determined with reference to the intensities of Fe I lines) are of the order of 5000°K; the temperature values deduced for the constricted jet from the 2 mm diameter nozzle lie in the range from 11 400 to 14 300 K. The electron and argon. atom and ion concentrations are evaluated on the basis of the temperature. It is concluded that a plasma jet generator of the given type is a good source of high temperature argon plasma, which is discharged from the nozzle in a state close to thermodynamic equilibrium. "In conclusion, the authors express their gratitude to Yo.D.Mishchenko for making available the photoelectric equipment. " Orig.art.has: 6 formulas, 4 figures and 2 tables.

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"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730002-0

ACCESSION NR: AP4035470
ASSOCIATION: none
SUBMITTED: 20Jul63 DATE ACQ: 22May64 ENCL: 00
SUB CODE: ME, OP NR REF SOV: 008 OTHER: 002

Card 3/3

PROKOFTYEV, V.K.; MIKOROVA, Ye.I. GRUZERV, F.F.; FRICH, T.S.

Oscillator strengths for the Fel spectrum. Izv. Krym. astrofiz.

Obser. 31:281-324 '64.

1. Gosudarstvennyy onticseskiy institut (for Mikonova, Grezdov, Frish).

"APPROVED FOR RELEASE: 06/13/2000

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CIA-RDP86-00513R000513730002-0

ACC NR1 AP7004138

SOURCE CODE: UR/0051/67/022/001/0019/0023

AUTHOR: Frish, M. S.

ORG: none

TITLE: Using a plasma jet generator to determine line transition probabilities in the argon spectrum

SOURCE: Optika i spektroskopiya, v. 22, no. 1, 1967, 19-23

TOPIC TAGS: plasma jet, argon, plasma generator, argen spectrum,

ABSTRACT: Absolute probabilities of line transition in the arc spectrum of argon were determined for the 450-390-nm region, using a plasma jet as the source of excitation. The decrease in ionization potential was then determined within the 10,000-15,000K temperature range. The results obtained were then compared with those obtained by other authors. Orig. art. has: 1 figure and 4 tables.

[SP]

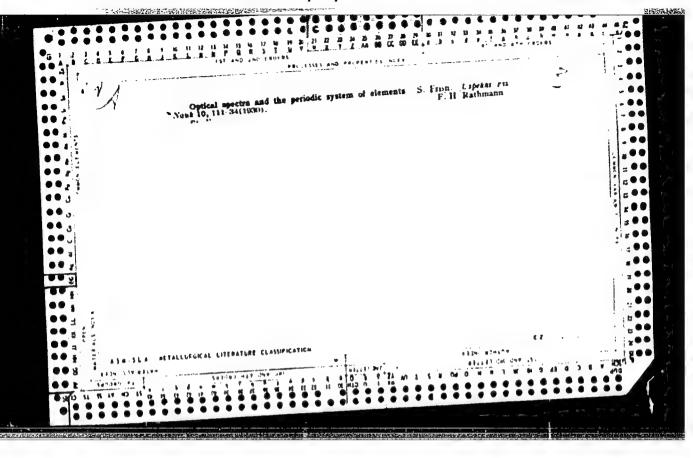
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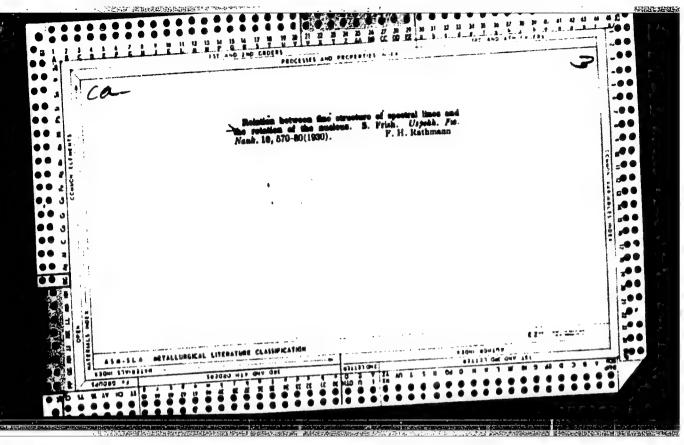
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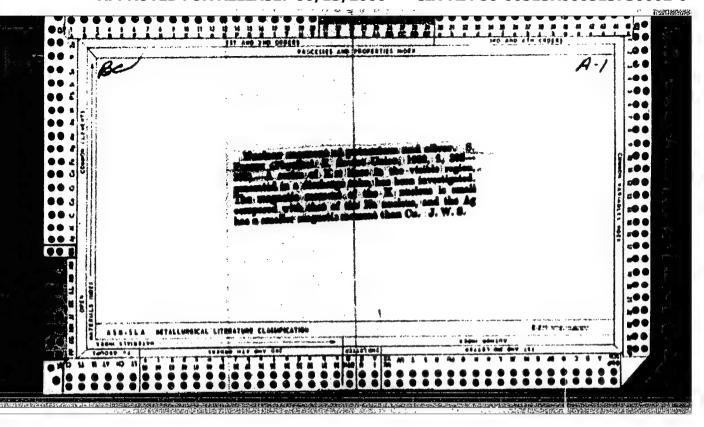
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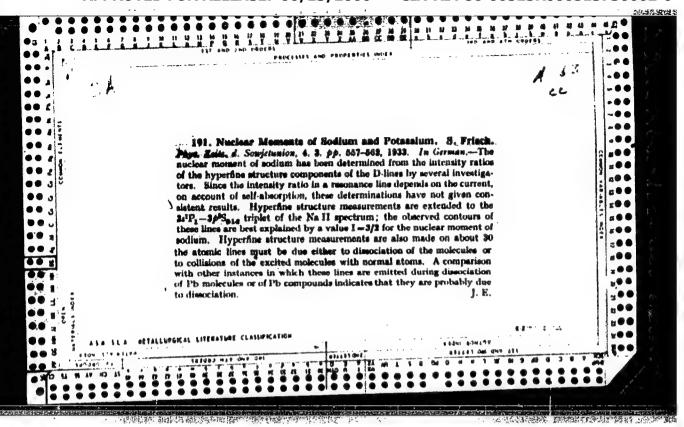
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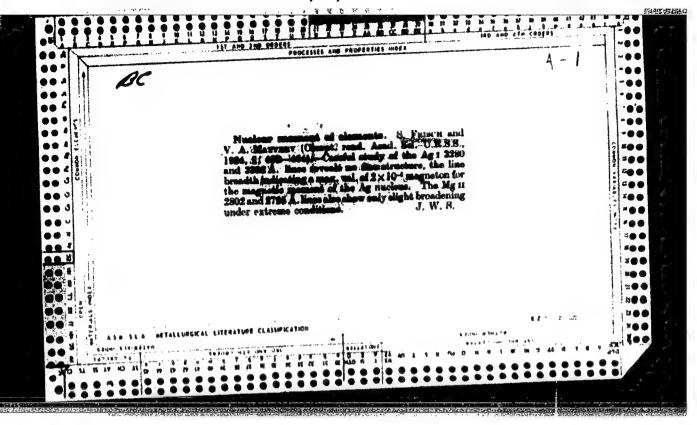
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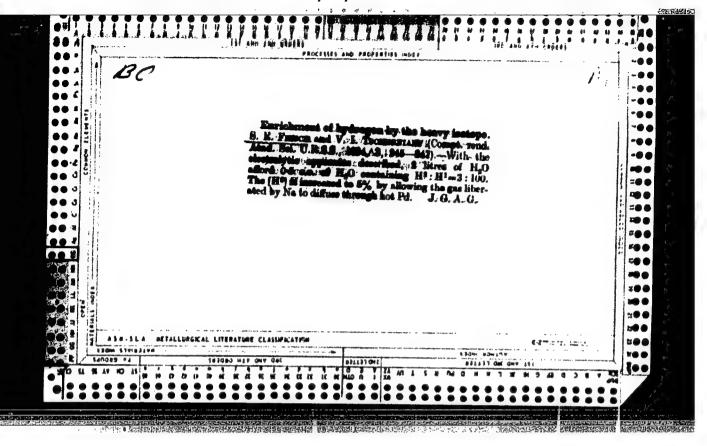


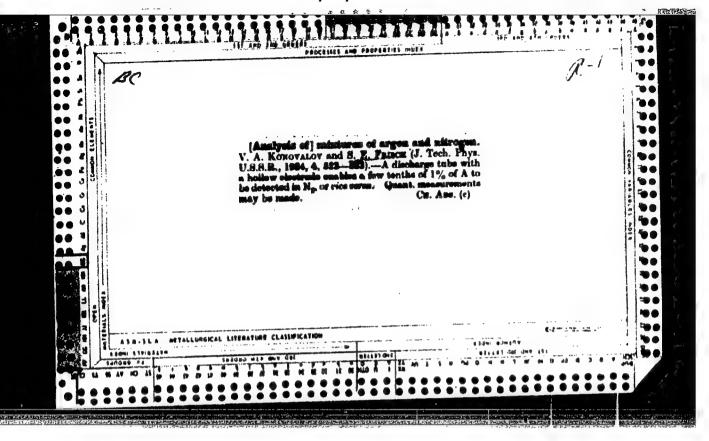


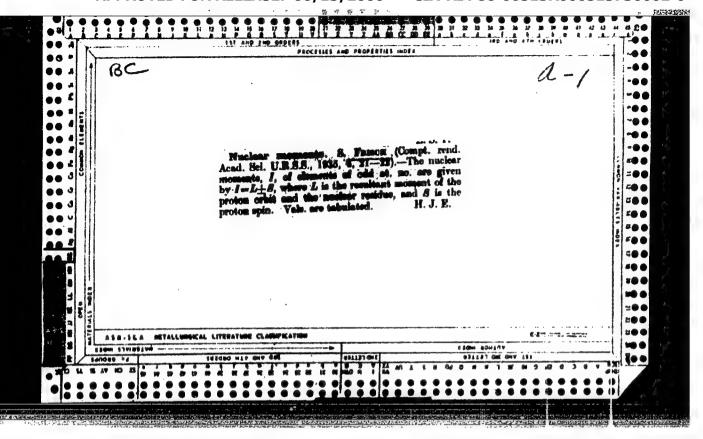


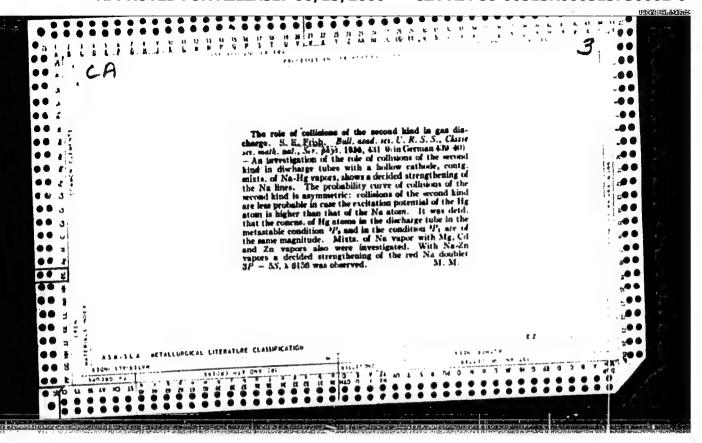


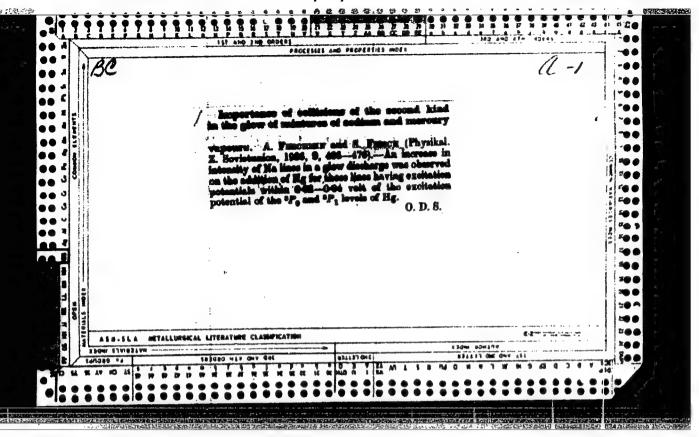


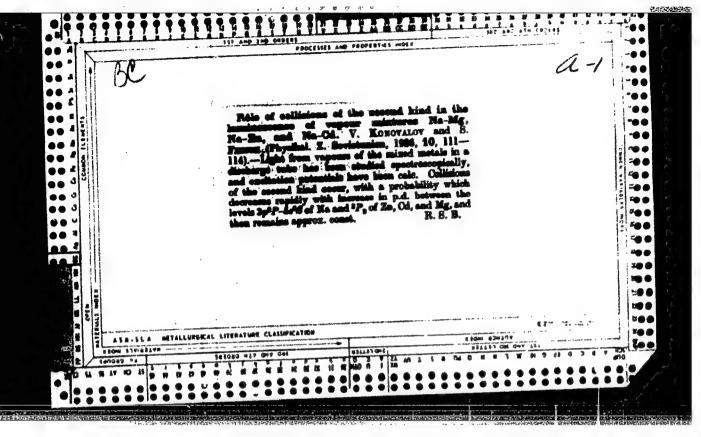






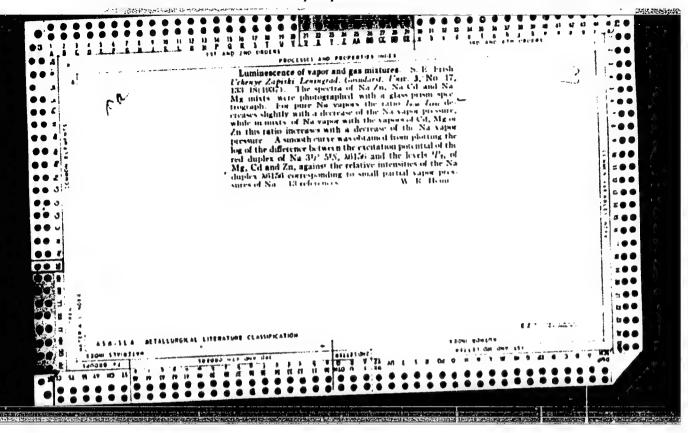


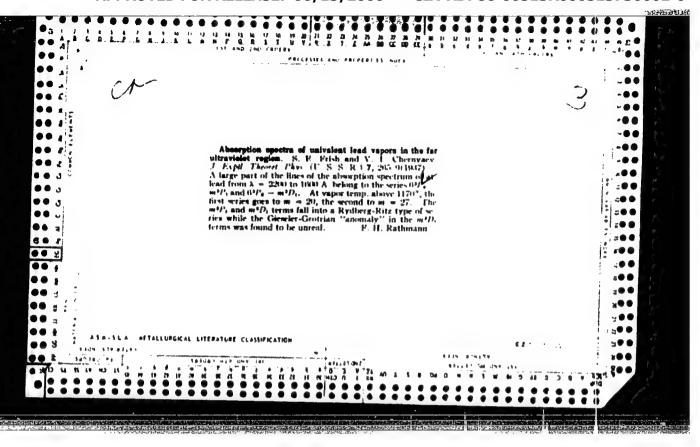


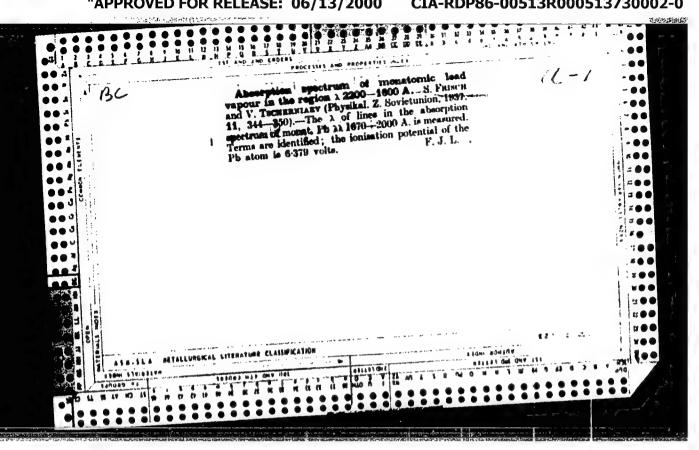


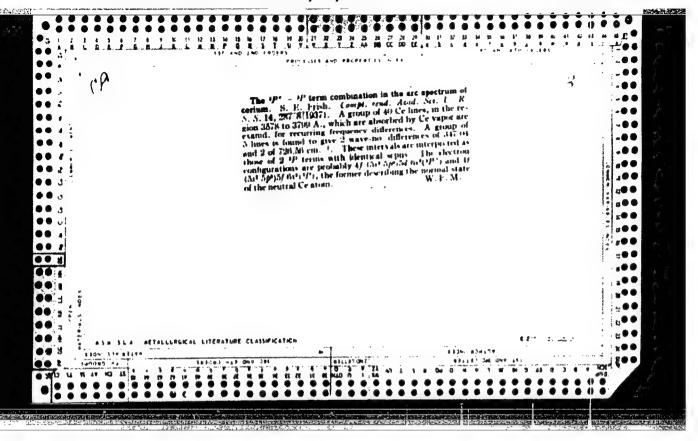
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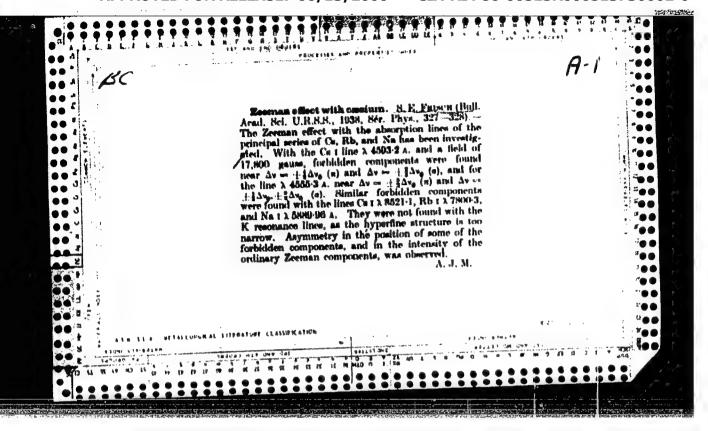
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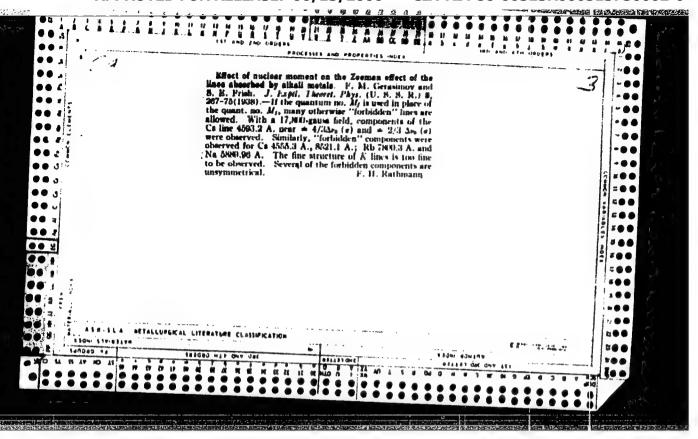


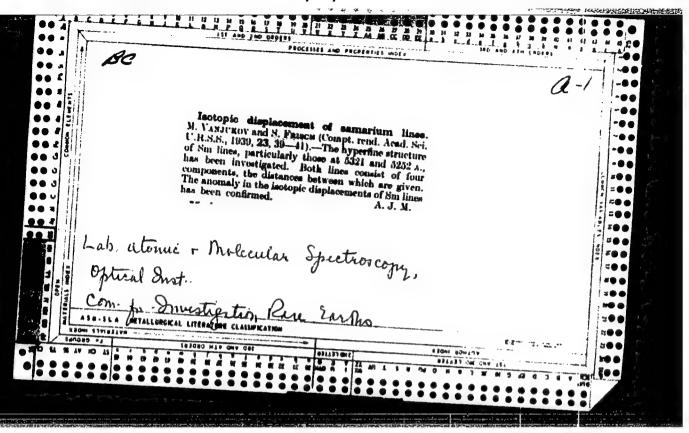


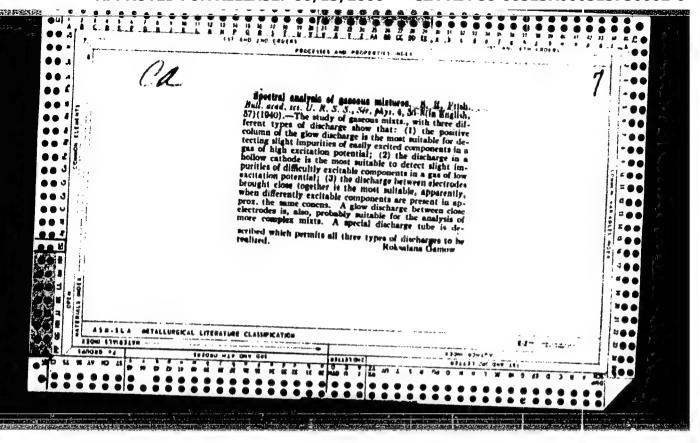


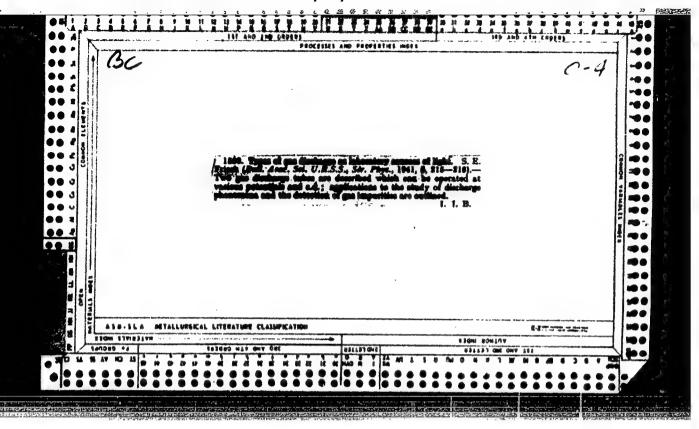


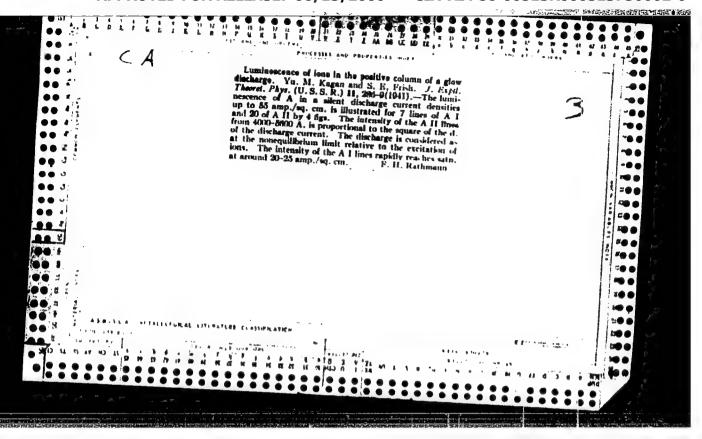


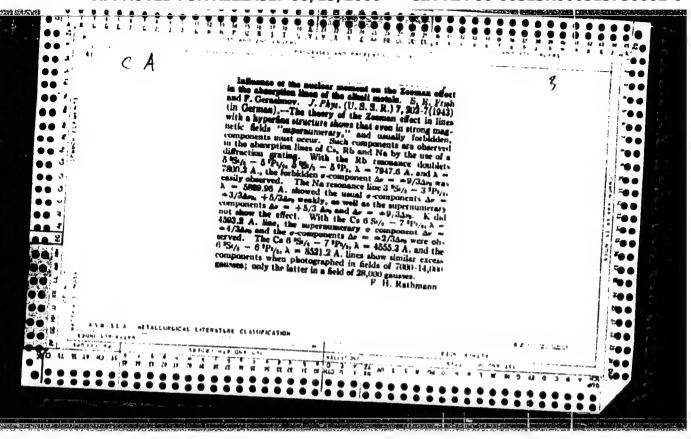


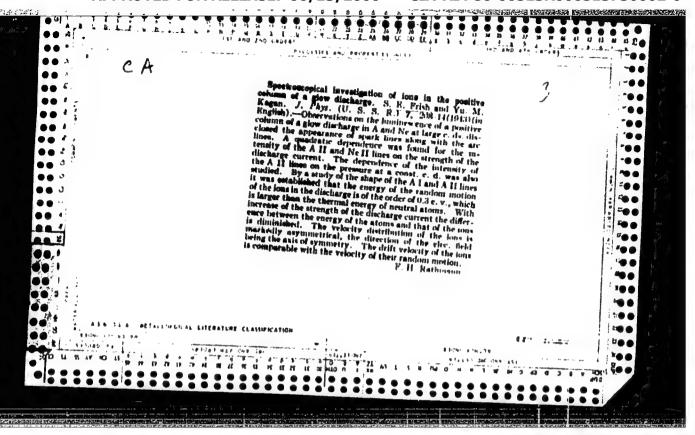


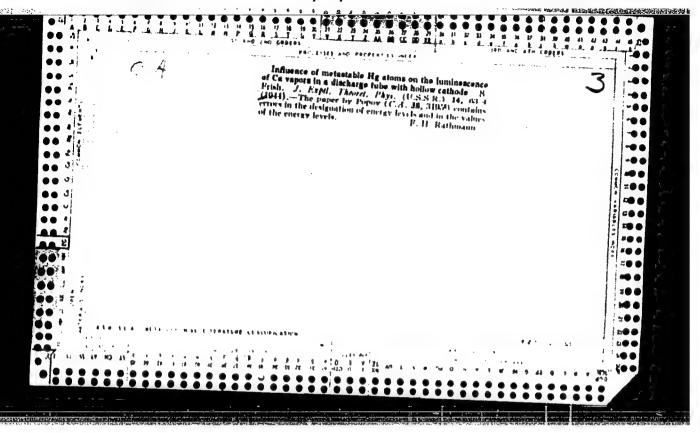


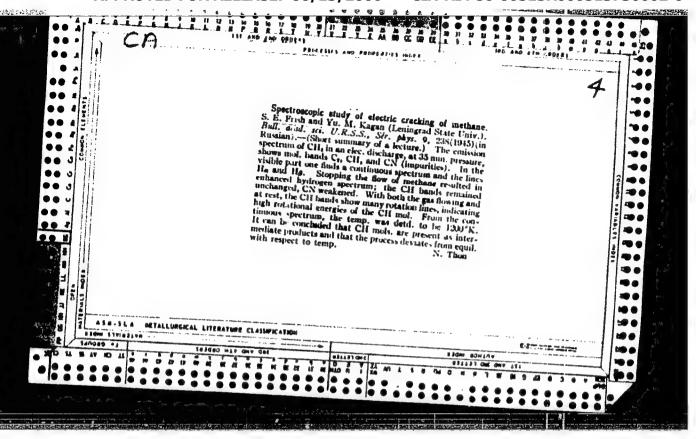












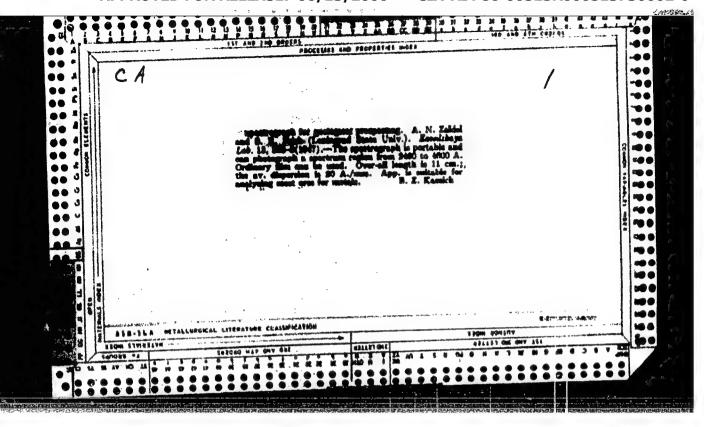
FRISH, S.E., professor, chlen-korrespondent Akademii mauk SSSR.

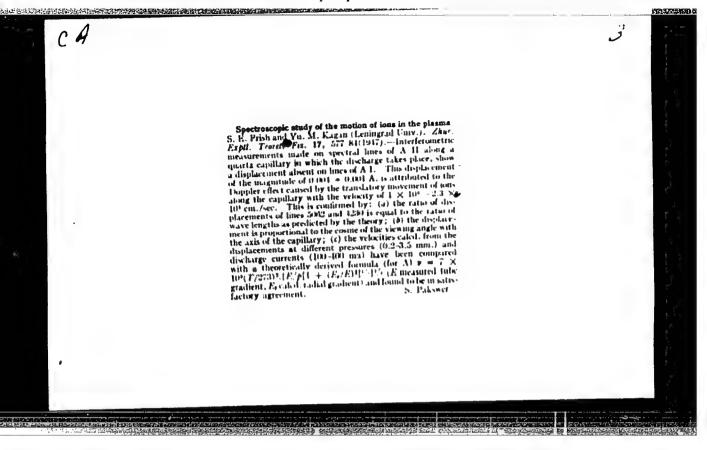
Elementary particles of matter. Fiz.v shkole 7 no.1:3-13 '47.

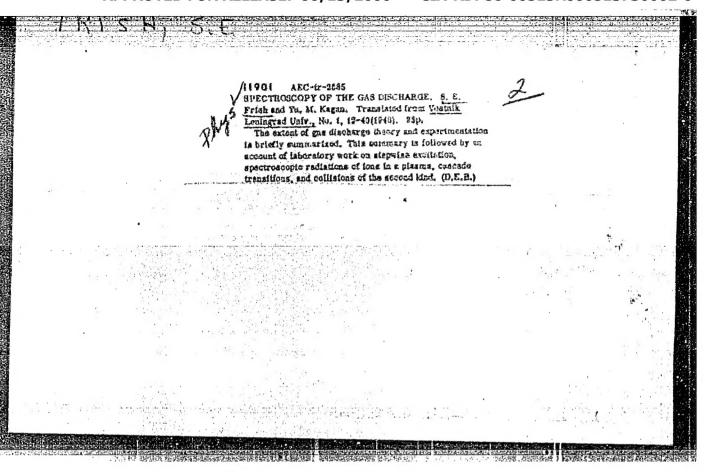
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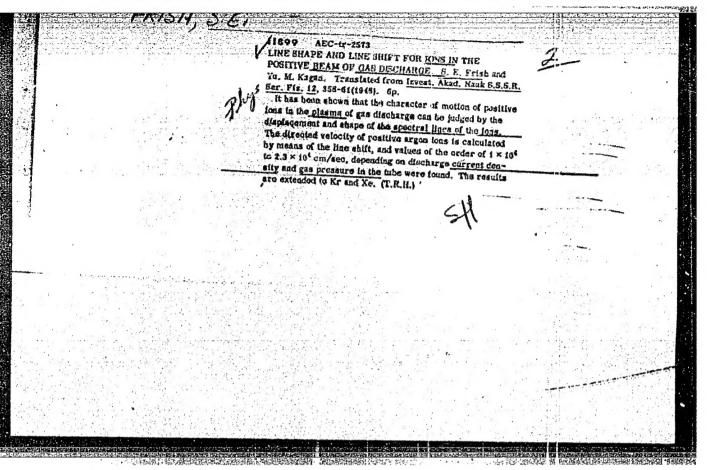
1. Leningradskiy gosudarstvennyy universitet.

(Particles)



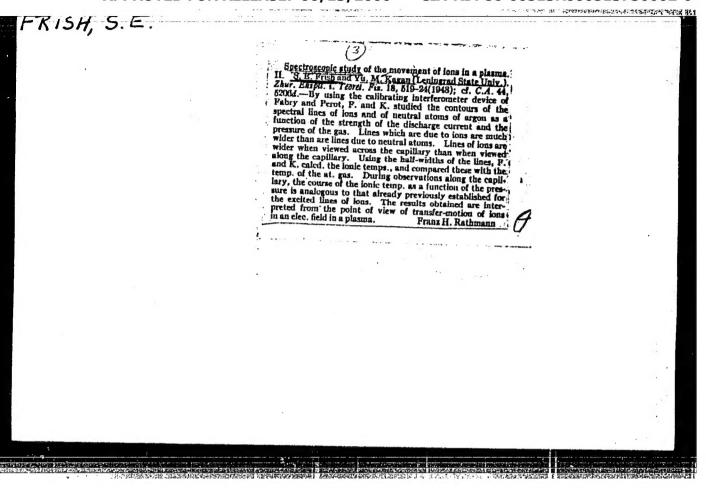






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